

ABSTRACT OF THE DISCLOSURE

A turbine nozzle includes hollow vanes extending between outer and inner bands. The vanes include a pattern of outlet holes distributed over the pressure and suction sides thereof for discharging cooling air collectively at a reference flowrate. The pattern of holes includes multiple rows of showerhead holes bridging the leading edge, and two rows of gill holes spaced aft therefrom along the suction side. A row of auxiliary holes is spaced aft from the showerhead holes through the pressure side, and the gill holes are sized to counterbalance the added discharge air through the auxiliary holes for maintaining the reference flowrate.